UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/522,523	01/26/2005	Guy Marck	Q85512	7429	
23373 SUGHRUE MI	7590 01/21/200 ON, PLLC	EXAMINER			
2100 PENNSY	LVANIA AVENUE, N	LISTVOYB, GREGORY			
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER	
			1796		
			MAIL DATE	DELIVERY MODE	
			01/21/2009	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	pplication No. Applicant(s)					
Office Action Summary			10/522,523		MARCK ET AL.			
			Examiner		Art Unit			
			GREGORY	LISTVOYB	1796			
Period fo	The MAILING DATE of this commu or Reply	nication appe	ears on the d	over sheet with the o	correspondence ad	ddress		
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGHT IN IT	MAILING DA's of 37 CFR 1.136 munication. tatutory period will y will, by statute, or	TE OF THIS 6(a). In no event Ill apply and will e cause the applica	S COMMUNICATION, however, may a reply be tirexpire SIX (6) MONTHS from the become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on 06 Oc	tober 2008					
· · · · · · · · · · · · · · · · · · ·	Responsive to communication(s) filed on <u>06 October 2008</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)		<i>,</i> —			secution as to the	e merits is		
٥/١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 3-41 is/are pending in the	application.						
•	Claim(s) <u>3-41</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>3-10,12 and 13</u> is/are reject	rted						
·	Claim(s) <u>5-70,72 and 75</u> is/are rejections.							
•		-		inamant				
8)	Claim(s) are subject to restri	ction and/or	election rec	uirement.				
Applicati	on Papers							
9) 🔲	The specification is objected to by the	ne Examiner.						
10)	The drawing(s) filed on is/are	:: a) <u></u> acce	pted or b)	objected to by the	Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review ( nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		_	) Interview Summary Paper No(s)/Mail Da ) Notice of Informal F ) Other:	ate			

### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/04/2008 has been entered.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 3-10, 12-13 is rejected under 35 U.S.C. 102(b) as being anticipated by Beilstein (1988-2001 Beilstein Institut, cited in IDS) or Takao et al (US 6139927) herein Takao.

Beilstein and Takao (Column 56, Example 20) disclose a diamine of Formula 1, where A1 and A2 are Nitrile, Ester, Acid, Alkyl (Beilstein) and Alkyl (Takao).

Art Unit: 1796

At n1-n3 equal to zero, the above formulas meet the limitations of claim 1.

For instance, Takao teaches diamine of the following formula (20) (see Column 56):

Claimed formula 1 of claim 3 is the following:

$$H_2N$$
 $A^1$ 
 $A^2$ 
 $NH_2$ 

where A1 and A2 are represented by the following formula II:

$$---s^{\frac{1}{2}} c^{\frac{1}{2}} z^{\frac{1}{2}} c^{\frac{2}{2}} z^{\frac{2}{2}} c^{\frac{3}{2}} D$$

If n1=n2 = n3 = 0, the above formula II transforms to S1-D fragment, where S1 is equal to a single bond and D is equal; to alkyl residue.

Therefore, the limitations of claims 3,6,7,8,9,10, are met.

Regarding Claim 4-5, 12-13 when n1=n2=n3=0, the corresponding units are not presented in the diamine claimed.

Regarding claim 18, the position is taken that alkane chain of Belstein and Takao's diamine inherently can be isomerized at high radiation level.

Note that Claim language ("which can be photoisomerized on exposure to UV or laser light") permits the presence of any additional materials (catalysts, promoters, coreactants, etc.) in the process.

In reference to claim 41, Takao teaches a liquid crystal orientation material based on the above diamine (see Abstract)

## Allowable Subject Matter

Claims 11, 14-17 and 19-41 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

10/06/08 have been fully considered but they are not persuasive.

Note that Examiner reconsiders claims 3-10, 12-13 and notice of allowable subject matter is withdrawn.

Applicant argues that claim 22 does not depend on claim 3.

This is incorrect. Claim 18 depends on claim 3, whereas claim 22 depends on claim 18. Therefore, claim 22 indirectly depends on claim 3.

Art Unit: 1796

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GREGORY LISTVOYB whose telephone number is (571)272-6105. The examiner can normally be reached on 10am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rabon Sergent/ Primary Examiner, Art Unit 1796

GL